

## ABSTRACT

A photonic circuit board comprises a connection setting circuit, a group of electric wires for connecting the connection setting circuit and a plurality of devices, an optical I/O (input/output) device connected to the connection setting circuit and a two dimensional optical transmission medium connected to the optical I/O device and adapted to transmit optical signals. The connection setting circuit includes a circuit capable of changing the mode of connection of the group of electric wires and the optical I/O device.